

I CLAIM:

1. A method for creating a database for carrying out a simulation, comprising:

- a) defining first points, which are subjected to a first entity,
- b) defining second points, with a second entity as the output variable, the second points being subdivided into a first subset and a second subset, and the second points of the first subset being subjected to the first entity,
- c) determining the transfer functions between one of the first points and one of the second points in each case, by a first simulation program,
- d) storing a first matrix with the transfer functions between the first points and the second points of the first subset and storing of a second matrix with the transfer functions between the first points and the second points of the second subset, and
- e) repeating steps a to d with regard to the second entity and a third entity, by a second simulation program.

2. The method as claimed in claim 1, further comprising:

- a) accessing the first matrix and the second matrix,
- b) linking up of the first matrix and the second matrix for linking up the underlying vector models, and
- c) storing the linked-up first and second matrices as a system model.

3. A simulation method comprising:
 - a) loading of a system model from a database created by a method as claimed in claim 2,
 - b) initialization of the simulation,
 - c) calculating the simulation with boundary conditions taken into consideration, and
 - d) storing of the simulation results.
4. A simulation method as claimed in claim 3, in which the system model comprises only the first matrix.
5. A simulation method as claimed in claim 3, in which the system model comprises the linking up of at least the first matrix and the second matrix.
6. A method for presenting the results of a simulation comprising:
 - a) loading results of a simulation method as claimed in claim 3,
 - b) expanding of the results, and
 - c) generating graphic output of the results.
7. A computer program product on a computer-readable medium with computer-readable instructions for carrying out a method as claimed in claim 1.
8. A computer system programmed to perform the steps as claimed in claim 1.